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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,185	09/21/2001	Shunsuke Ohtsuka	NSG-202US	6364
23122	7590	12/18/2002	EXAMINER	
RATNERPRESTIA P O BOX 980 VALLEY FORGE, PA 19482-0980			CRANE, SARA W	
ART UNIT	PAPER NUMBER	5		
2811		DATE MAILED: 12/18/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/937,185	OHTSUKA ET AL.	
Examiner	Art Unit		
	Sara W. Crane		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on _____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-12 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-12 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 1, the last three lines are not clear ("wirings not to be electrically shorted are crossed is implemented . . ."), perhaps due to a non-idiomatic translation. What is the subject for "are crossed" and what is the subject for "is implemented"? Is it the wirings that "are crossed" and the layout that "is implemented"? If so, then each verb phrase should immediately follow its own antecedent. The last section of each of the independent claims has the same problem. In claim 2, last three lines, again "wirings not to be electrically shorted are crossed is implemented . . ." is confusing. In claims 3 and 4, "are crossed is implemented" is again confusing. In claims 5, and 8, "cross the gate-selecting lines is implemented . . ." is confusing. In claim 10, "cross the anode-selecting lines or cathode-selecting lines is implemented . . ." is confusing.

In claim 5, last two lines, what is "isolated from the light-emitting thyristors"? The wiring layout? The bonding pads? The electrodes? The islands? Also, the "isolated islands" of this claim and claim 7 are not understood. Is this feature shown in a figure?

Drawings

Figures 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-12, insofar as understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's prior art figures 1-5 and associated discussion thereof in the specification.

The Background Art section of the specification states that figures 1-5 are from an issued Japanese Patent, which appears to be prior art for this application. It is not clear to the examiner how the pending claims are supposed to distinguish over these teachings.

With respect to claims 1 and 2, figure 2 shows a cross point (labeled "cross") where a two-layer wiring is not shorted. (If there were a short, the device would not be functional.) With respect to claim 3, the cross-under wiring in this figure is labeled as a

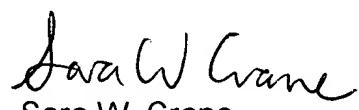
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gate electrode. With respect to claim 4, the "K" or cathode wiring in figure 3 crosses under the thyristors. With respect to claim 5, figures 3 and 5 show bonding pads, and the wiring to the bonding pads cross gate lines, and is not formed on the thyristor mesas or "islands." With respect to claim 8, figure 3 shows gate electrode wiring G1 and G2 which is "elongated around" the light emitting thyristors. With respect to claim 9, the ~~crosses~~ wiring to the bonding pads ~~cross~~ the gate lines, and there are two gate lines G1 and G2, electrically connected to one another through the gate layers of the thyristor devices. With respect to claim 10, the bonding pad wiring crosses the "K" or cathode line and is formed in a part of the circuit isolated from the thyristor mesas.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (703) 308-4894.

The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0956.



Sara W. Crane
Primary Examiner
Art Unit 2811